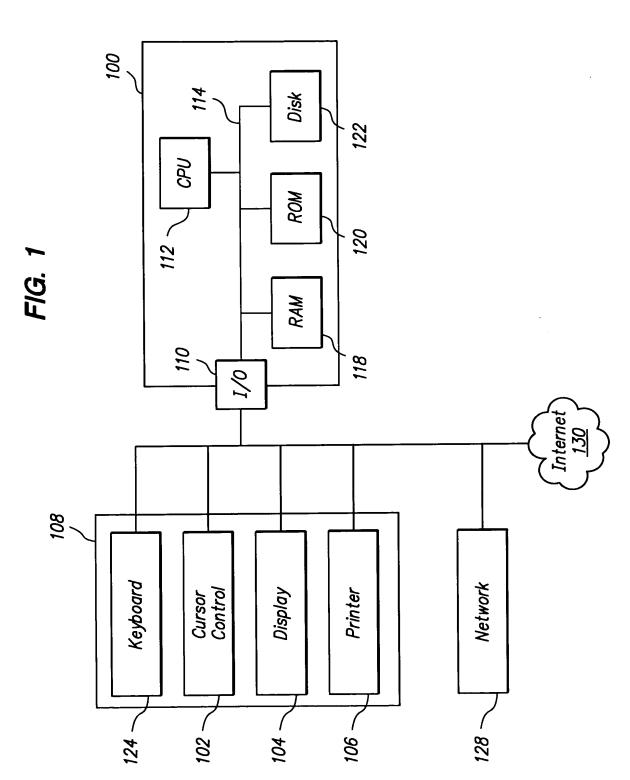APPLN. FILING DATE: AUGUST 21, 2003
TITLE: METHOD AND APPARATUS FOR AUTOMATIC
FILE CLUSTERING INTO A DATA-DRIVEN . . .
INVENTOR(S): JEROME R. BELLEGARDA ET AL.
APPLICATION SERIAL NO. 10/644,815   SHEET 1 OF 5

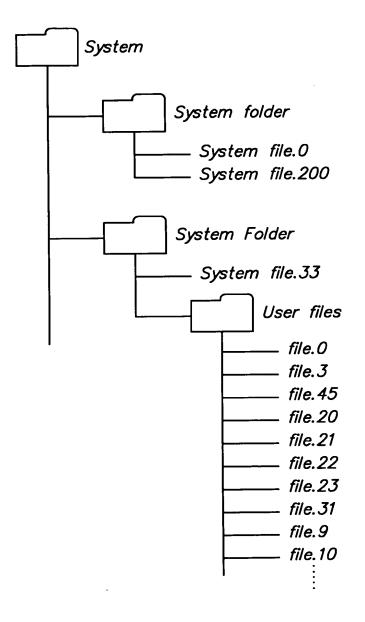1/5

FIG. 1

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TITLE: METHOD AND APPARATUS FOR AUTOMATIC
FILE CLUSTERING INTO A DATA-DRIVEN . . .
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APPLICATION SERIAL NO. 10/644,815   SHEET 2 OF 5

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FIG. 2A

3/5

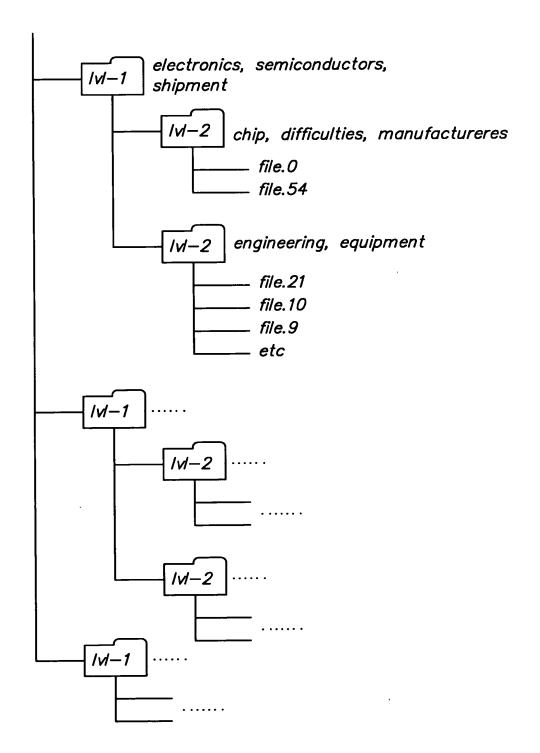# FIG. 2B

APPLN. FILING DATE: AUGUST 21, 2003
TITLE: METHOD AND APPARATUS FOR AUTOMATIC
FILE CLUSTERING INTO A DATA-DRIVEN . . .
INVENTOR(S): JEROME R. BELLEGARDA ET AL.
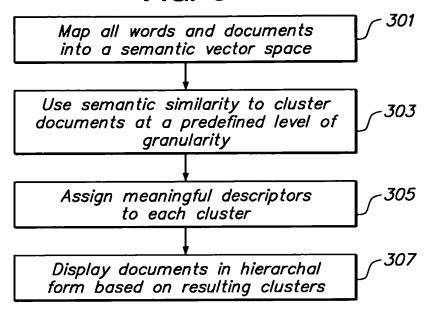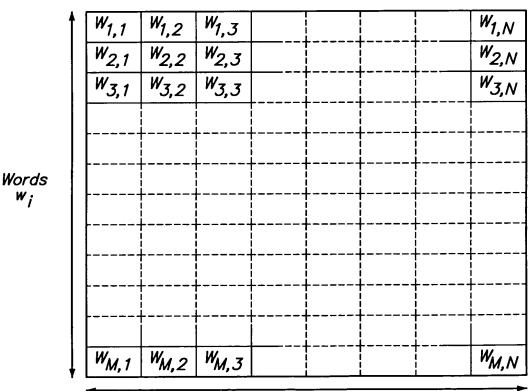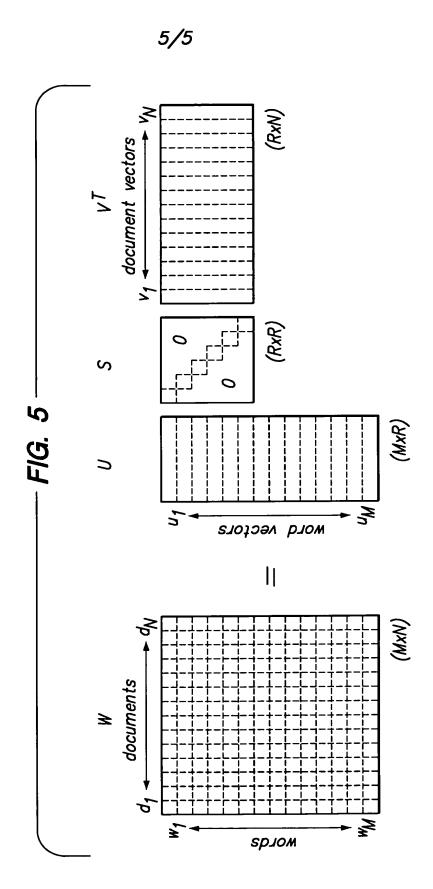APPLICATION SERIAL NO. 10/644,815   SHEET 4 OF 5

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FIG. 3

Map all words and documents
into a semantic vector space   301

Use semantic similarity to cluster
documents at a predefined level of
granularity   303

Assign meaningful descriptors
to each cluster   305

Display documents in hierarchal
form based on resulting clusters   307

FIG. 4

$W_{1,1}$	$W_{1,2}$	$W_{1,3}$					$W_{1,N}$
$W_{2,1}$	$W_{2,2}$	$W_{2,3}$					$W_{2,N}$
$W_{3,1}$	$W_{3,2}$	$W_{3,3}$					$W_{3,N}$
$W_{M,1}$	$W_{M,2}$	$W_{M,3}$					$W_{M,N}$

Words
w_i

Documents
d_j

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FIG. 5